



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor: Paul V. Cooper

Atty. Docket: 23438.00023

Appln. No.: 09/649,190

Group Art Unit: 1742

Filed: August 28, 2000

Examiner: Kastler, S.

For: SCRAP MELTER AND IMPELLER THEREFORE

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PRELIMINARY AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

Please amend the above-identified application as follows:

IN THE CLAIMS:

Please cancel claims 19-24 and 26-30 without prejudice or disclaimer.

Please amend the following claims:

C₁ 38. An open impeller for circulating molten metal in a molten metal bath, the impeller comprising:

a hub;

three or more blades extending outwardly from said hub, there being spaces between the blades, wherein at least one of said three or more blades includes an angled surface for directing molten metal at least partially in a downward direction, and wherein at least one of said three or more blades includes a vertical surface for directing molten metal at least partially in a radially outward direction, the hub including a non-threaded tapered bore for receiving an end of a drive shaft.

C₂ 44. A molten metal mixing device, the device comprising:

a drive source;

a drive shaft having a first end connected to the drive source and a second end;